

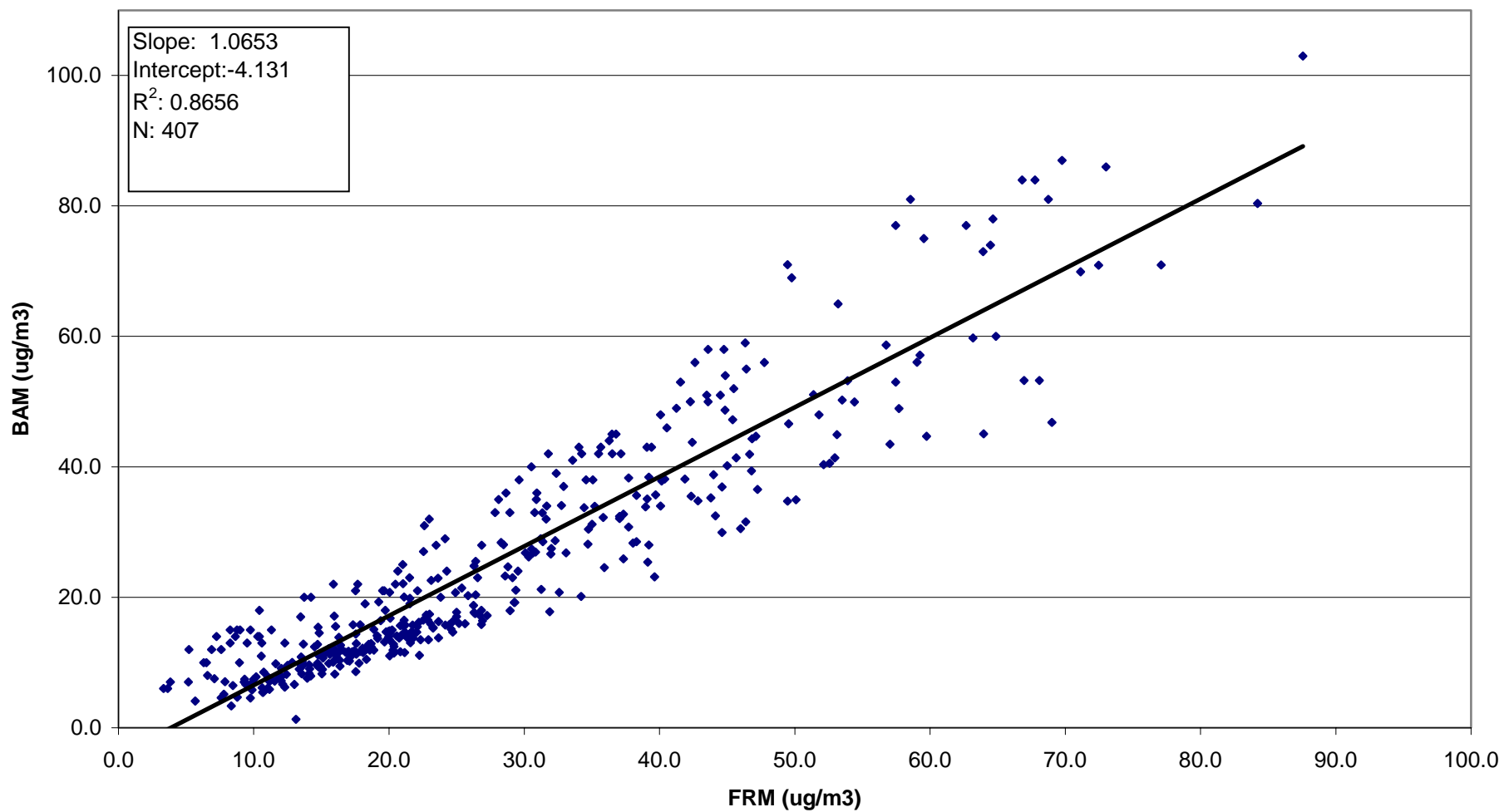
CARB BAM/FRM COMPARISONS, 7/10/2003

In the last two years the California Air Resources Board has purchased Met One Beta Attenuation Mass (BAM-1020) Monitors to meet the requirements of the PM_{2.5} State and Local Monitoring Network Plan. The BAM-1020 is a continuous monitor that is currently configured to sample PM_{2.5} at various monitoring sites in California. Many of these sites also have PM_{2.5} filter samplers.

BAM-1020 daily averages were calculated using days that contained 24 hours of valid data. FRM data was collected from the primary PM_{2.5} FRM sampler. Collocated FRM and BAM data are also included. Data from both the FRM and BAM are preliminary.

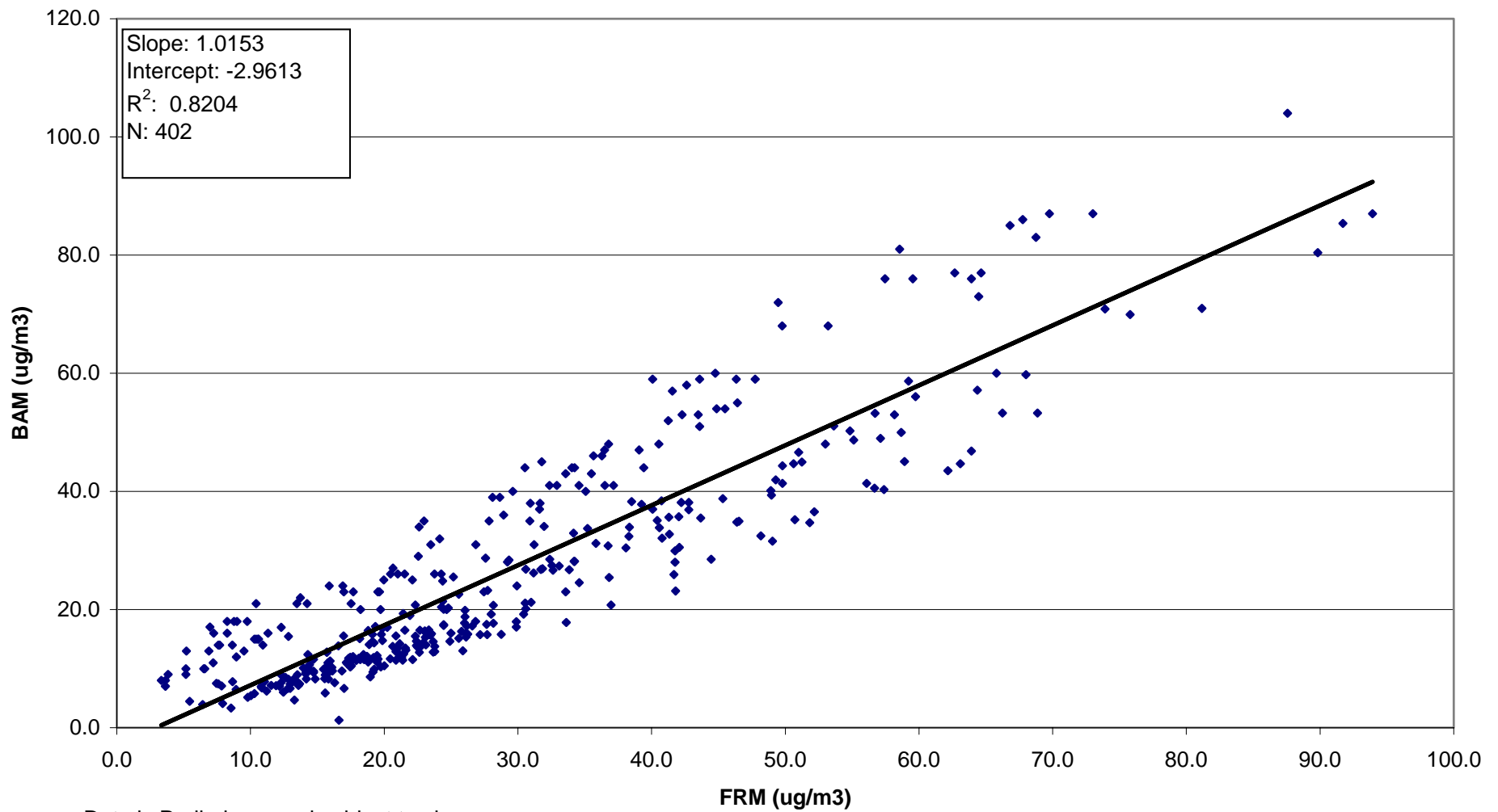
The BAM vs. FRM regressions were performed to evaluate the accuracy of the BAM 1020's in comparison to the FRM. Primary vs. Collocated BAM regressions were performed to evaluate the precision of the instruments. Data from CARB monitoring sites in Bakersfield, Calexico, Visalia, Modesto, Chico, Fresno, and Lake Tahoe were evaluated and the data is presented in the charts below.

Bakersfield
Met One BAM 1 (Model 1020) vs. Primary PM2.5 FRM
December 1, 2001 - April 7, 2003



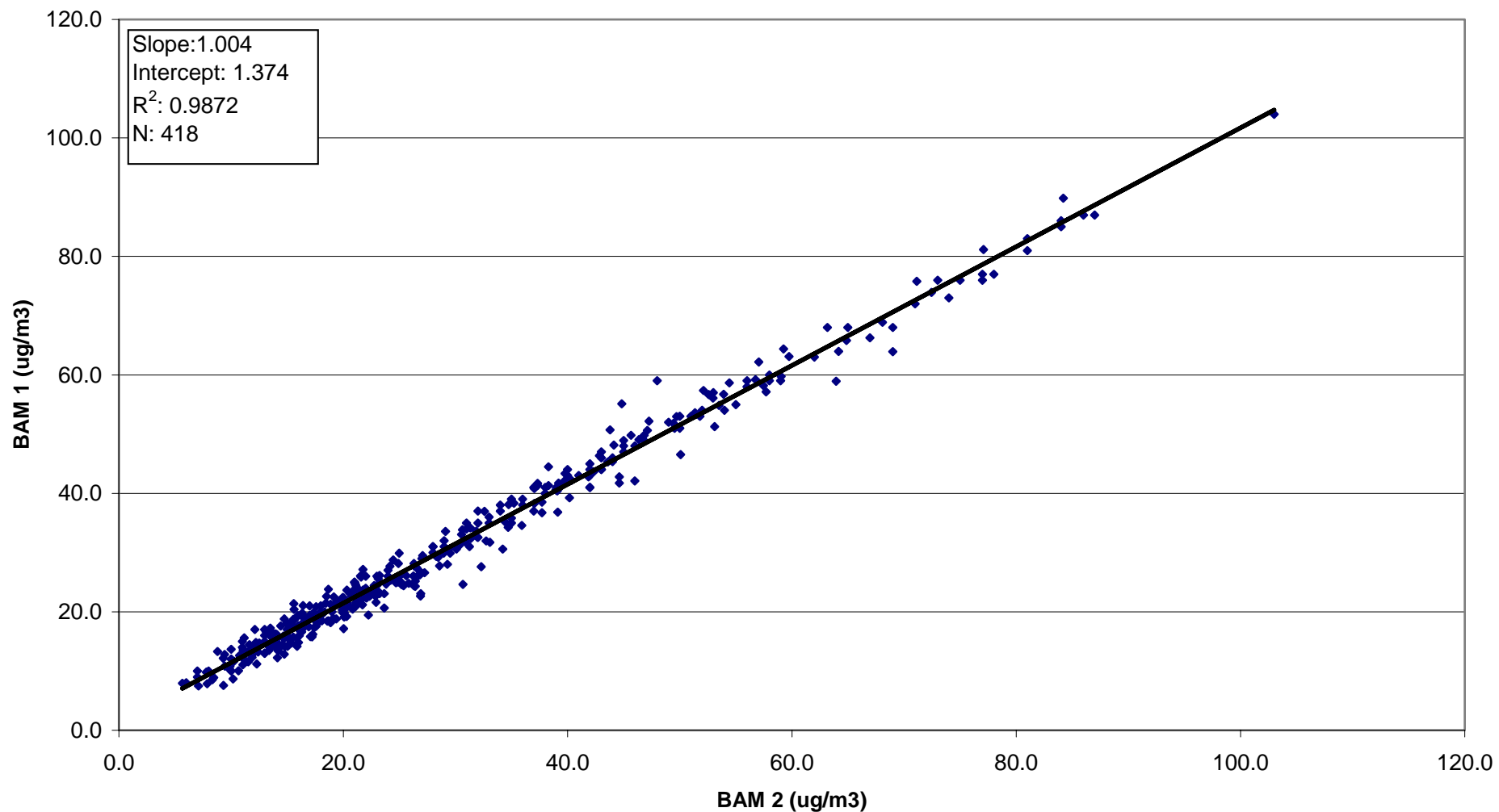
Data is Preliminary and subject to change

Bakersfield
Met One BAM 2 (Model 1020) vs. Primary PM2.5 FRM
December 1, 2001 - April 7, 2003



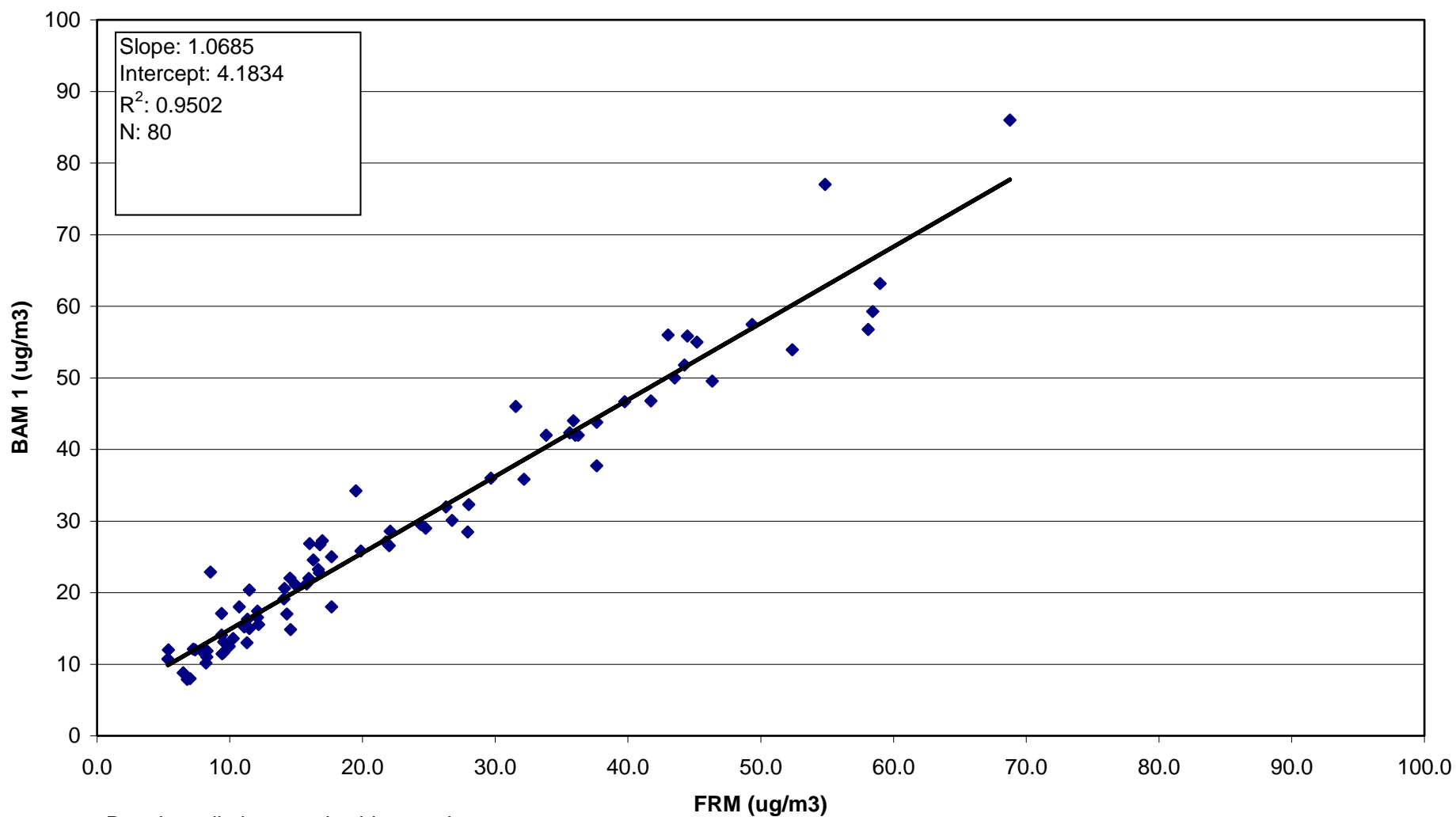
Data is Preliminary and subject to change

Bakersfield
Met One BAM 1 (Model 1020) vs. Met One BAM 2 (Model 1020)
December 1, 2001 - April 7, 2003



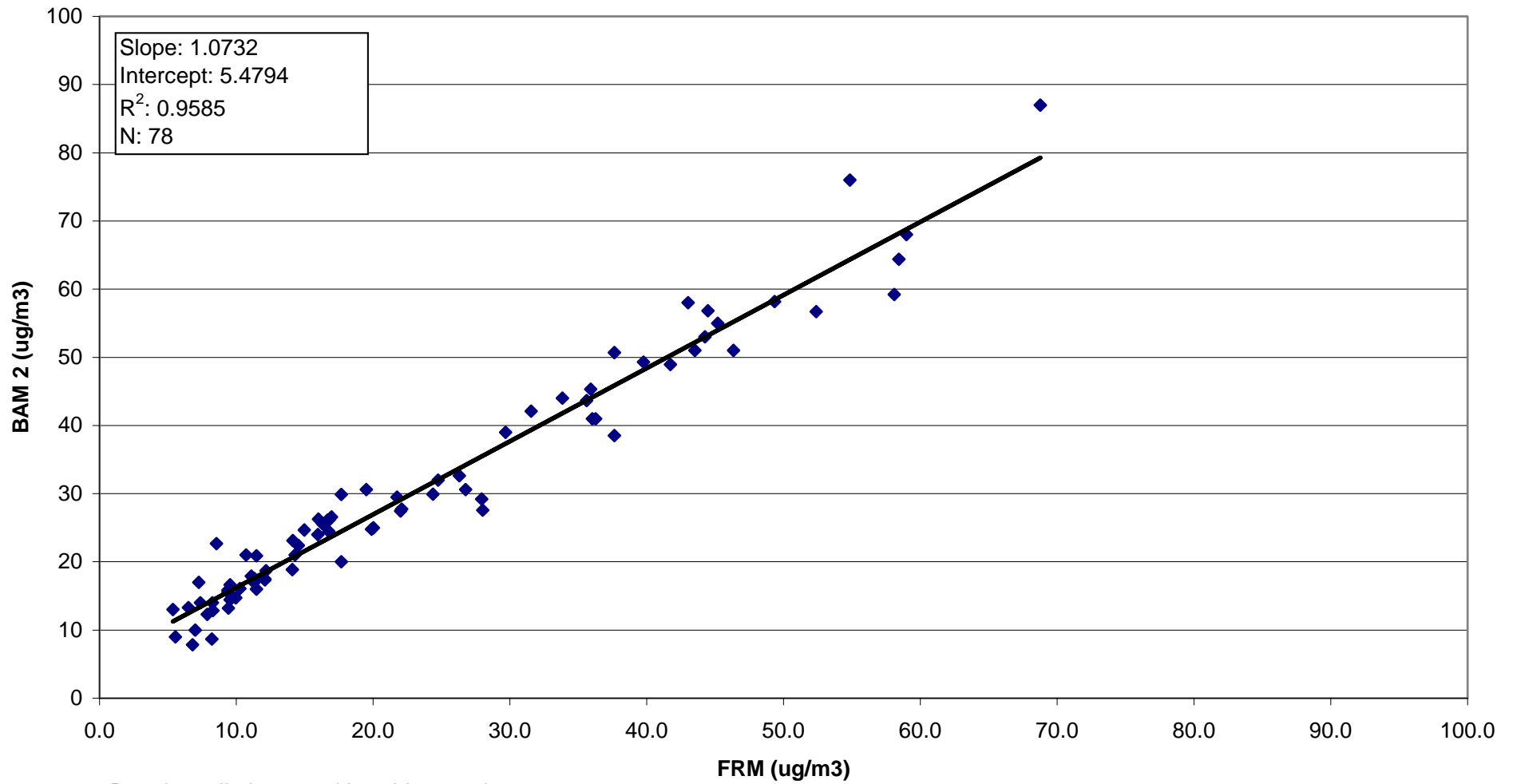
Data is Preliminary and subject to change

Bakersfield
Met One BAM 1 (Model 1020) vs. Collocated PM2.5 FRM
November 2001 - April 7, 2003



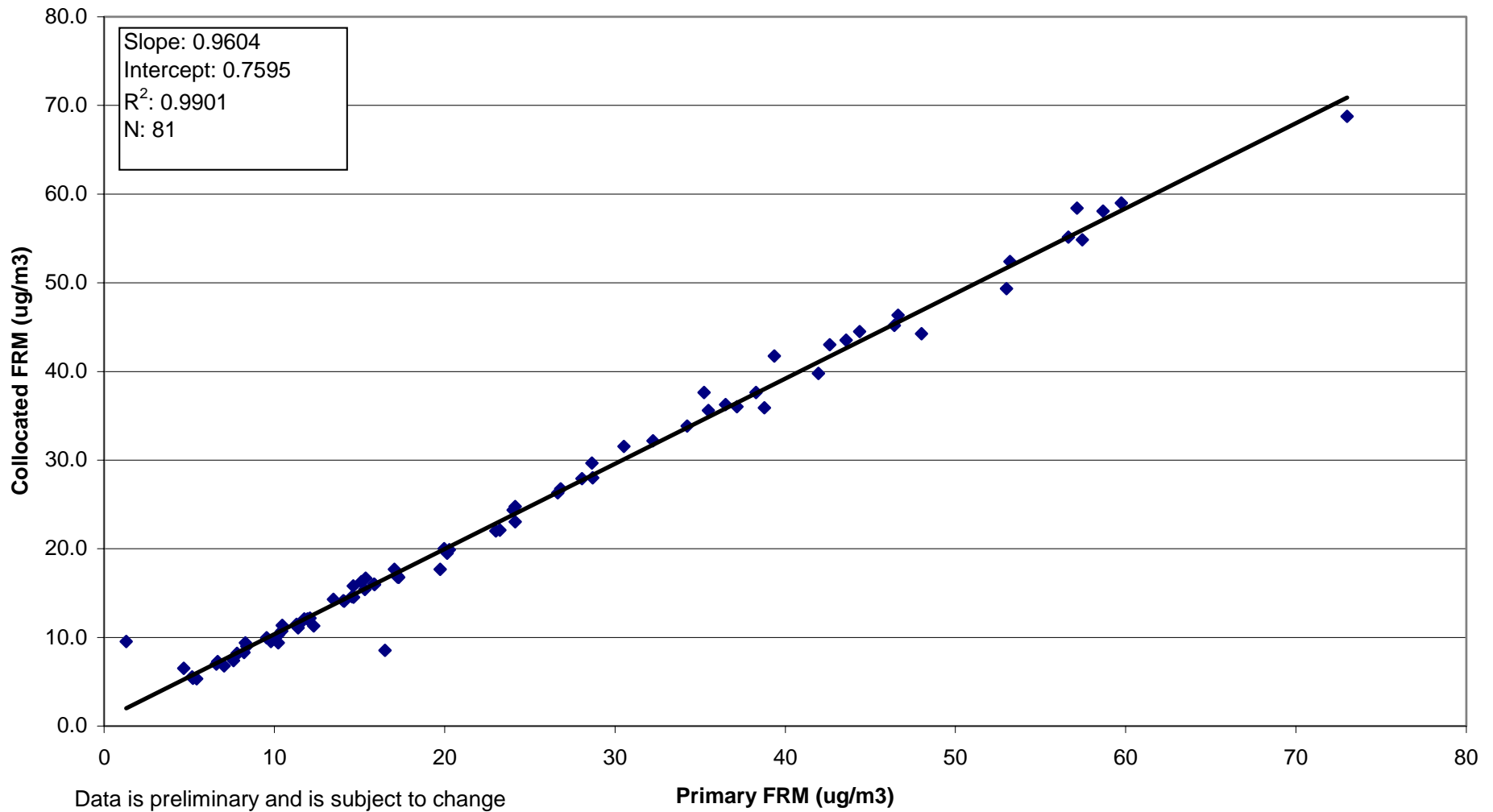
Data is preliminary and subject to change

Bakersfield
Met One BAM 2 (Model 1020) vs. Collocated PM2.5 FRM
November 2001 - April 7, 2003

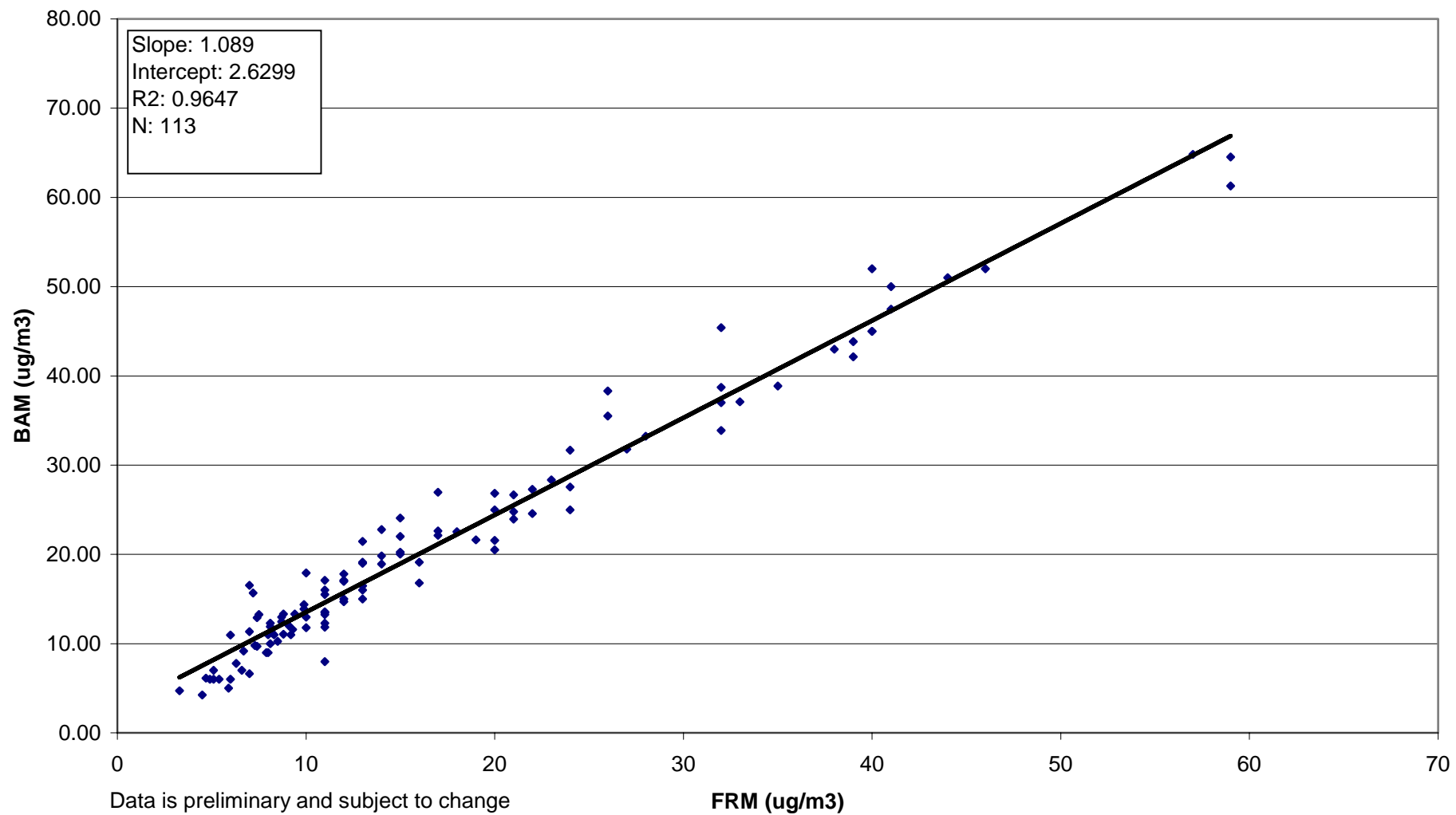


Data is preliminary and is subject to change

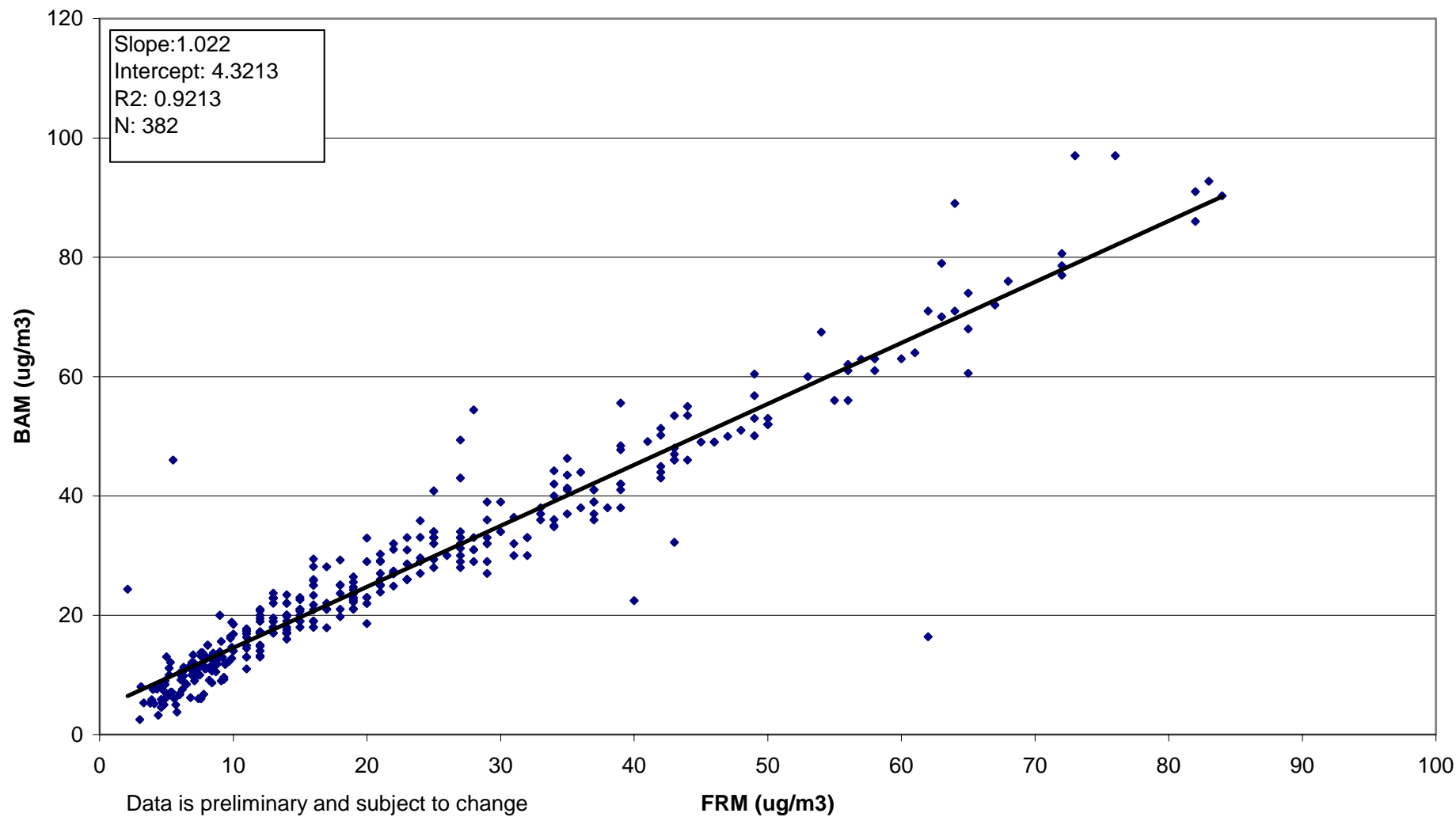
Bakersfield
Primary PM2.5 FRM vs. Collocated PM2.5 FRM
November 2001 - April, 7 2003



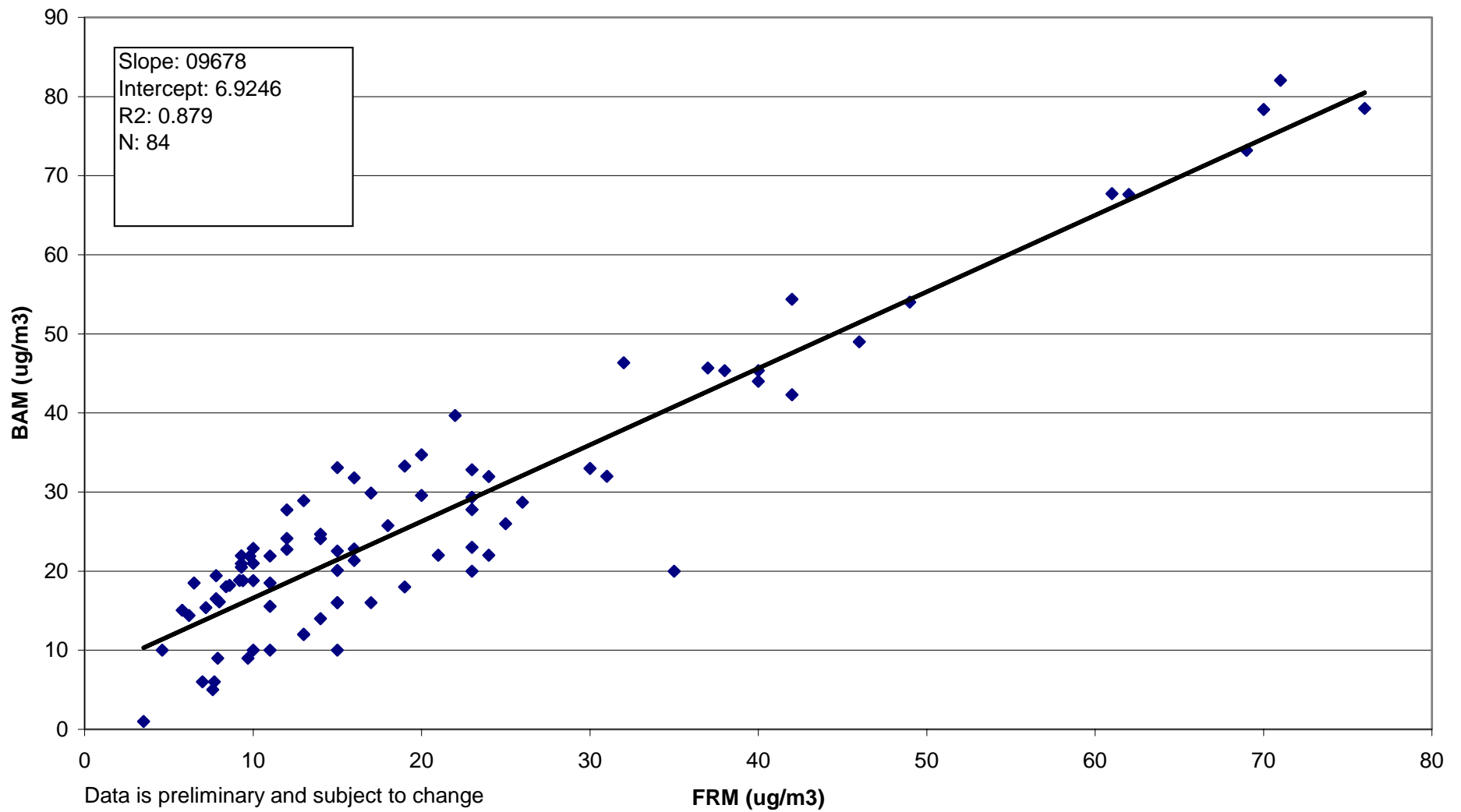
Modesto
Met One BAM (Model 1020) vs. PM2.5 FRM
January 2, 2002 - April 27, 2002



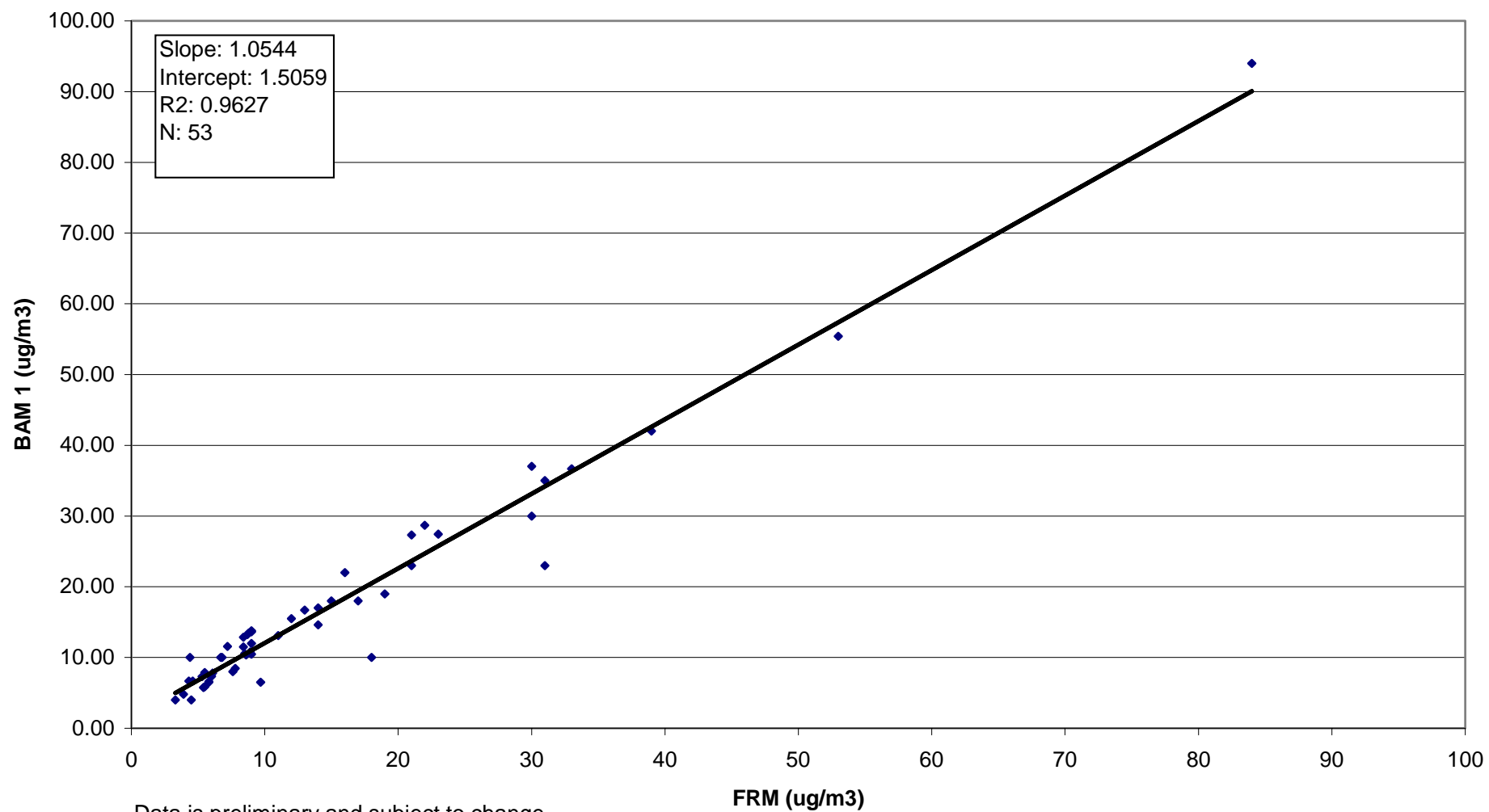
Fresno
Met One BAM (Model 1020) vs. Primary PM2.5 FRM
January 03, 2002 - March 27, 2002



Visalia
Met One BAM 1020 vs. PM2.5 FRM
January 2, 2002 - April 15, 2003

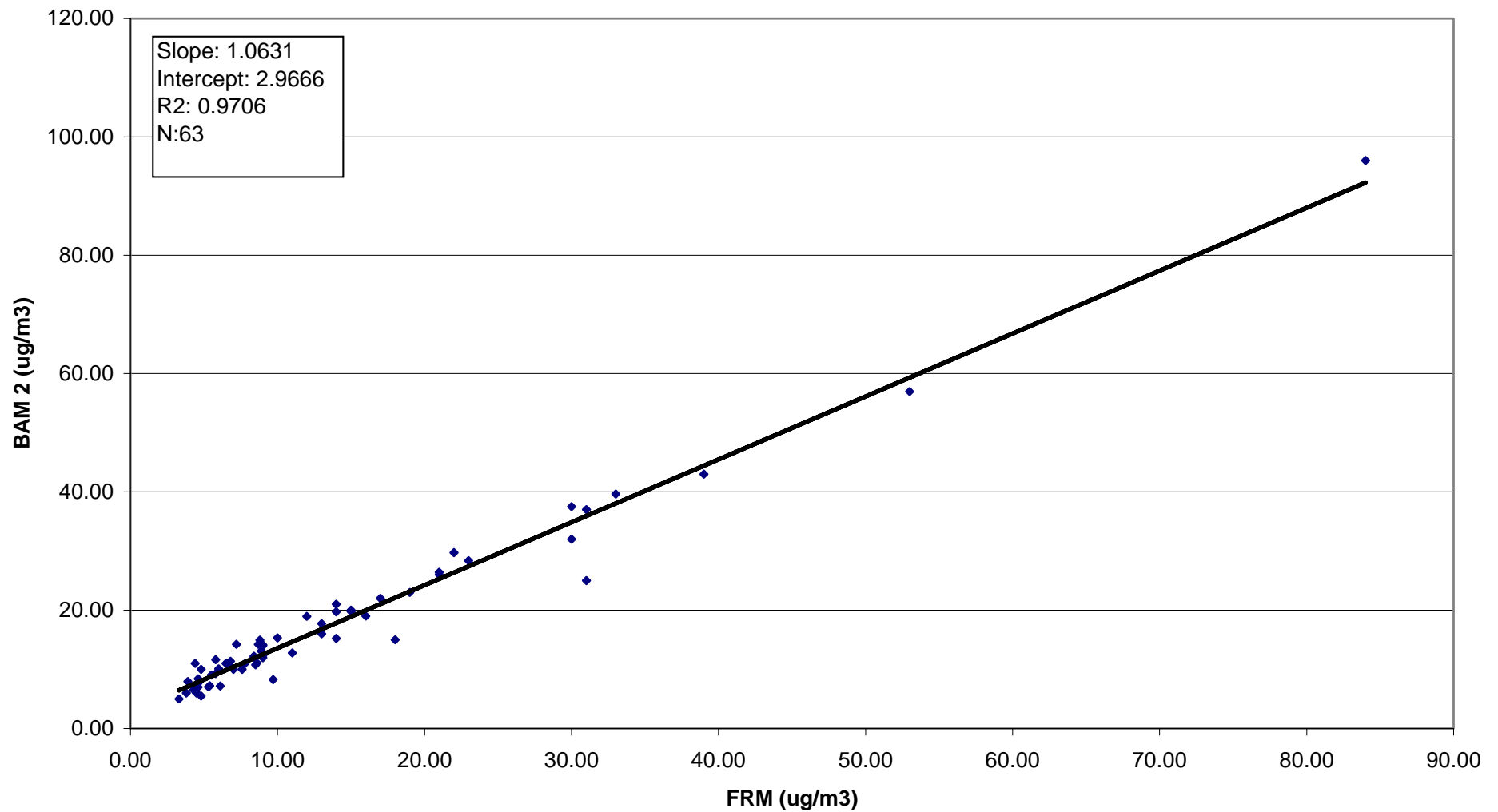


Chico
Met One BAM 1 (Model 1020) vs. PM2.5 FRM
April 2, 2002 - March 22, 2003



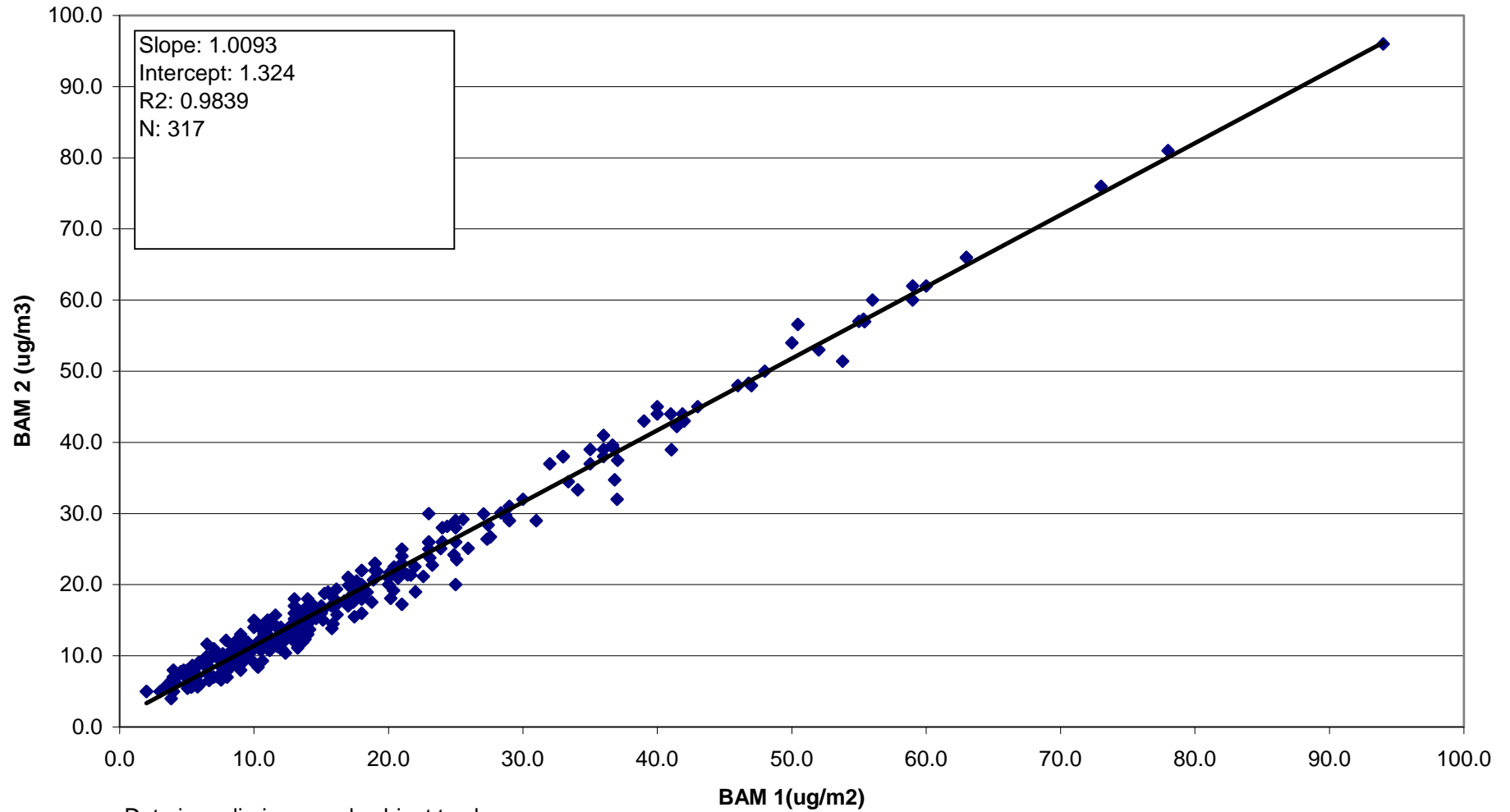
Data is preliminary and subject to change

Chico
Met One BAM 2 (Model 1020) vs. PM2.5 FRM
March 3, 2002 - April 27, 2003



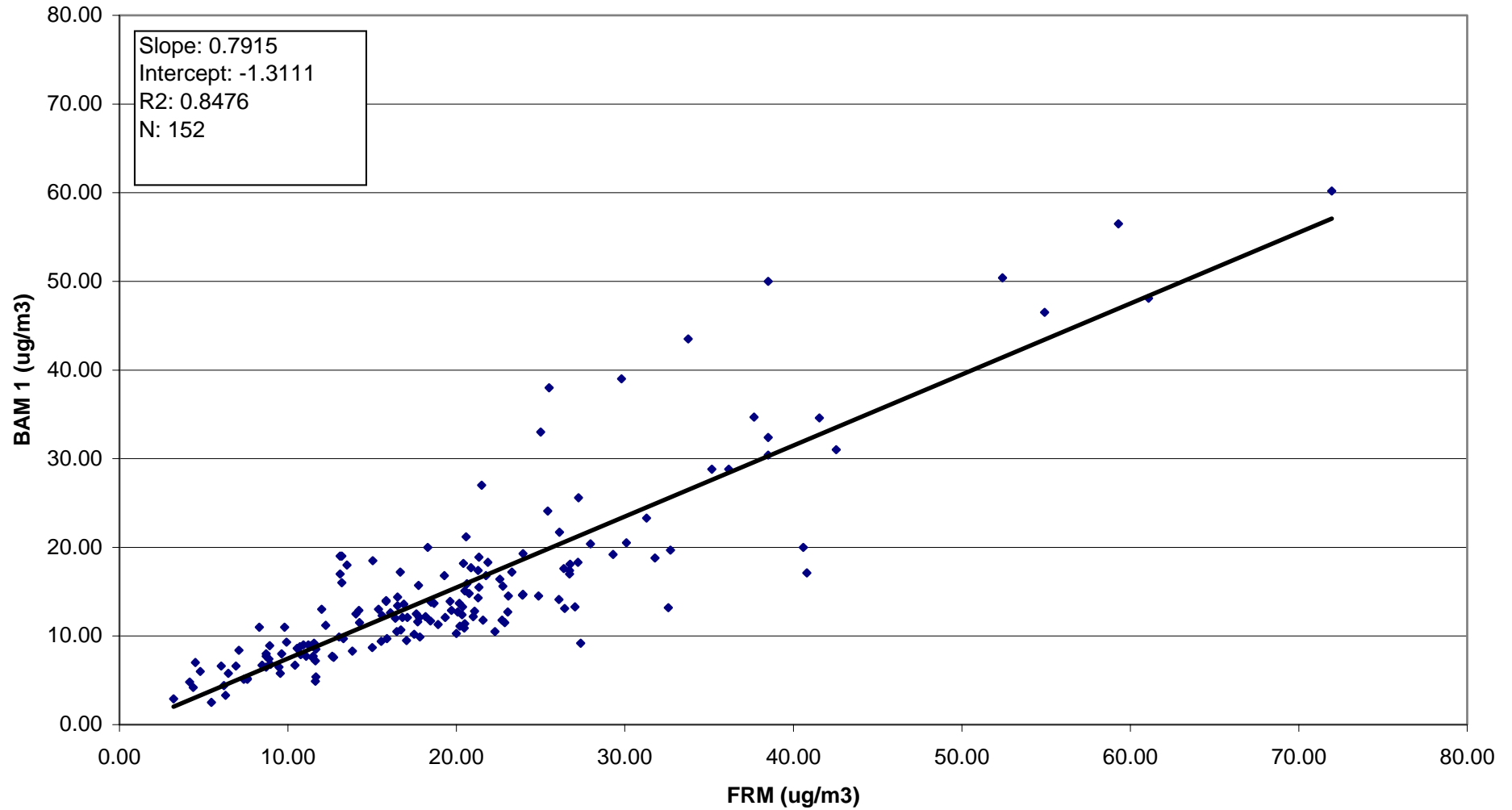
Data is preliminary and subject to change

Chico
Primary Met One BAM (Model 1020) vs. Collocated Met One BAM (Model 1020)
April 2, 2002 - April 8, 2003



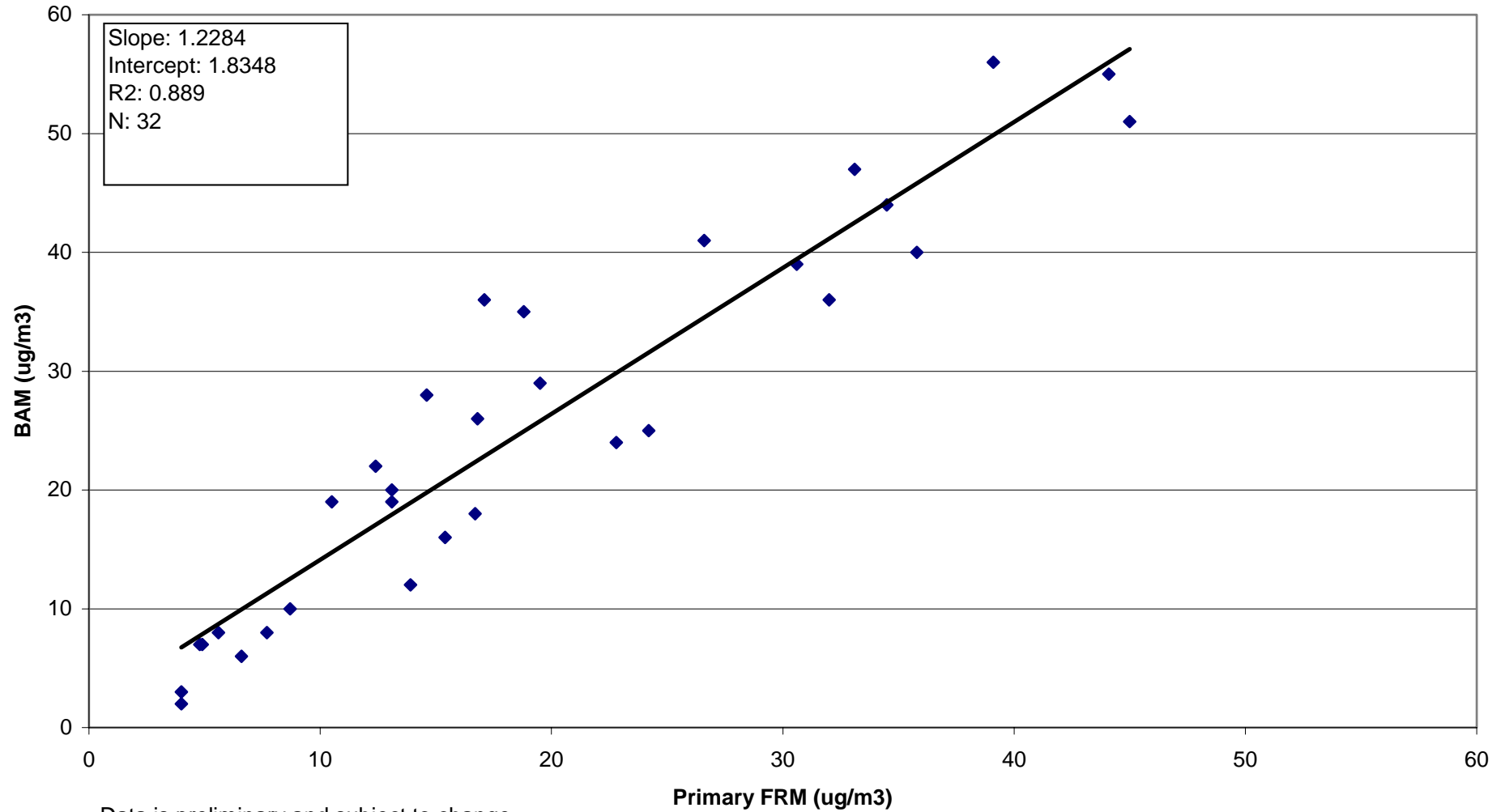
Data is preliminary and subject to change

Calexico - Ethel Street
Met One BAM 1 (Model 1020) vs. Primary PM2.5 FRM
January 1, 2001 - March 2003



Data is preliminary and subject to change

Calexico - Ethel Street
Met One BAM 2 (Model 1020) vs. Primary PM2.5 FRM
December 2002 - March 2003



Data is preliminary and subject to change

Tahoe Sandy Way
Met One BAM 1020 vs. PM2.5 FRM
October 2002 - May 21, 2003

